

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Jeffrey Hubbell, Jason Schense, Andreas Zisch and Heike Hall

Serial No.: 10/650,509                      Art Unit: 1651

Filed: August 27, 2003                      Examiner: Leon B. Lankford, Jr.

For: *ENZYME-MEDIATED MODIFICATION OF FIBRIN FOR TISSUE  
ENGINEERING*

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE TO ELECTION OF SPECIES**

Sir:

Responsive to the Office Action mailed on March 21, 2006, please consider the following remarks. Submitted with this Response to Election of Species is a Petition for Extension of Time, along with the required fee for a large entity, to extend the period for response one month, to and including May 21, 2006. The Commissioner is hereby authorized to charge \$120.00, the fee for a Petition for Extension of Time for one month for a large entity, to Deposit Account No. 50-3129.

It is believed that no additional fee is required with this submission. However, should an additional fee be required, the Commissioner is hereby authorized to charge the fee to Deposit Account No. 50-3129.

**Remarks**

**Response to Election of Species**

In the Office action mailed March 21, 2006, the Examiner required an election of a specific matrix and of specific sequences for each domain of the bidomain protein or peptide.

In response, applicants elect the Factor XIIIa substrate domain of SEQ ID No. 15 for the transglutaminase substrate domain, parathyroid hormone (PTH) for the domain containing a bioactive factor and fibrin for the matrix, with traverse. Claims 1-7, 10-14, 17-25, and 28-32 read on the elected species. Claim 1 is also generic to the elected species, as recognized by the Examiner. It is understood that the election of species is for initial searching purposes only. Applicants make this species election with the understanding that upon a finding that the elected species are patentable, the generic claims will be searched and examined.

Applicants traverse the election of species because the generic claims do not recite such a multiplicity of species that an unduly extensive or burdensome search be necessary. A general search for transglutaminase substrate domains, bioactive factors and matrices, will include the species recited in the claims. Further, the Examiner has not provided sufficient basis to indicate that examination of more than one of the alleged "species" would overly burden the Examiner. Therefore, the Examiner would not be overburdened with the examination of the claims in their entirety.

U.S.S.N. 10/650,509  
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**RESPONSE TO ELECTION OF SPECIES**

Examination and allowance of claims 1-35 is respectfully solicited.

Respectfully submitted,

/Rivka D. Monheit/

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Reg. No. 48,731

Date: May 10, 2006

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